

Angular Fullday Syllabus

Prerequisite for Angular:

HTML, CSS and JavaScript

1) HTML5

- a. Introduction
- b. Basic Formatting Tags
- c. Grouping Using Div Span
- d. Lists
- e. Images
- f. Hyperlink
- g. Table
- h. Iframe
- i. Form
- j. Headers
- k. Miscellaneous

2) CSS2:

- a. Introduction
- b. Syntax
- c. Selectors
- d. Color Background Cursor
- e. Text Fonts
- f. Lists Tables
- g. Box Model
- h. Display Positioning
- i. Floats

3) JavaScript:

- a. Introduction
- b. JS in HTML
- c. HTML DOM (Document Object Model)
- d. JS Console
- e. JS Debugging
- f. JS var & Arrays

- g. JS Objects & Functions
- h. JS dialog boxes
- i. JS JSON
- j. HTML Attributes

4) Advance JavaScript:

- a. Internal Working of JS
- b. Scope Chain & Lexical Scoping in JavaScript
- c. Function & Variable Hoisting in JavaScript
- d. JS Object Constructors
- e. JS Object Prototypes
- f. JS Object Accessors
- g. JS Data Types
- h. Closure in JavaScript
- i. LocalStorage and SessionStorage in JS
- j. Synchronous v/s Asynchronous Programming in JS
- k. Event Loop in JS

5) Bootstrap

- a. **Introduction of Responsive Bootstrap**
 - i. Rapid Development with Bootstrap
 - ii. Introducing Bootstrap
 - iii. Getting Started with angular 10
 - iv. Creating a Simple Page
 - v. Enhancing the Page
 - vi. How to configure bootstrap in Angular 10
- b. **Responsive Layouts with the Bootstrap Grid**
 - i. Introducing the Project
 - ii. Layout in Bootstrap
 - iii. How the Bootstrap Grid Works
 - iv. Styling Content
- c. **Using Bootstrap Components**
 - i. Building a Navbar
 - ii. Using Jumbotron to Showcase Key Content
 - iii. Adding Buttons and Button Groups
 - iv. Horizontal Navs and Dropdown Buttons
 - v. Displaying Content with Cards
 - vi. Building the Schedule with a List Group
 - vii. Displaying a Modal Window
 - viii. Using ScrollSpy to Highlight Nav Links



d. Building Forms with Bootstrap

- i. Form Groups and Form Controls
- ii. Custom Form Controls for Cross-Browser Consistency
- iii. Structured Form Layouts with the Grid
- iv. Adding Validation Styles

***** **[PERFORMANCE ASSESMENT TEST]** *****

6) MINI Project on HTML, CSS , JS and Bootstrap



Main Angular Syllabus:

1) Angular Installation:

- a. node.js
- b. Angular-cli
- c. Visual Studio code

2) Angular Project Flow(Folder Structure)

3) Types of data bindings in Angular

- a. String interpolation
- b. Property Binding
- c. Event Binding
- d. Two way Data Binding

4) Decorators used in Angular

- a. @Component
- b. @NgModule
- c. @Injectable
- d. @Input
- e. @Output
- f. @HostListner
- g. @directives
- h. @pipes

5) Pipes in Angular

- a. What is pipes?
- b. How to use pipes in angular?
- c. Types of pipes
 - i. Custom pipes
 - ii. Predefine pipes

6) Directives in Angular

- a. What is directives in angular?
- b. How to use directives?
- c. Types of directives
 - i. Structural directives
 - ii. Attribute directives
 - iii. Custom directives

7) Services in Angular

- a. What is services in angular?
- b. How to use services
- c. How to generate services

8) Angular CRUD

- a. Insert data to database
- b. Get data from database
- c. Update data in database
- d. Delete data from database

9) json-server

- a. How to install json-server
- b. How to use json-server

10) Bootstrap and font-awesome library installation

11) Angular material

- a. Material table
- b. Material form

12) Angular Forms

- a. Template driven forms
- b. Reactive forms
 - i. Form builder
 - ii. Form Group
 - iii. Form Control

13) Routing

- a. What is Routing?
- b. Advantages of routing
- c. How to use routing
- d. Child Routing

***** **[PERFORMANCE ASSESMENT TEST]** *****

14) Angular PROJECT
